

AUTOMOTIVE REPAIR TECHNICIAN

A student who has completed Job Corps' Automotive Repair Technician program is trained and ready to work in this field. To complete a trade, the student must learn the academic and vocational skills required for graduation. Job Corps students also learn good work and personal habits, preparing them for life after Job Corps. To complete the Automotive Repair Technician program, a student must master skills in the following categories:

Customer Service

SAFETY

Operate hand and power tools, hoist vehicles, raise vehicles using floor jacks and jack stands, understand and follow OSHA HAZMAT requirements and safely move standard and automatic transmission-type vehicles.

GENERAL KNOWLEDGE

Show knowledge of basic weights, measurements, hand and power tools, shop layout and equipment and automotive systems.

LUBRICATION, FILTERS AND FLUIDS

Change engine oil and filter, lubricate chassis, check vehicle fluid levels, service and replace air and fuel filters; inspect engine assembly, transmission, differential, power steering and rack and pinion for leaks.

GENERAL MAINTENANCE

Inspect, remove and install engine drive belts and engine cooling hoses; drain, flush and refill cooling system; perform cooling system, pressure and recovery systems tests; remove, service and install spark plugs, wires, distributor cap and rotor; drain and refill transmission, transaxle, differential and transfer case.

ELECTRICAL AND ACCESSORY MAINTENANCE

Inspect, remove, install and adjust headlights, parking and turn signal bulbs, windshield wiper blades and arms.

GENERAL ELECTRICAL TESTING

Use wiring diagrams during testing; check electrical circuits; test fusible links, circuit breakers and fuses.

TIRE MAINTENANCE

Mount and balance tires; rotate tires and properly torque lug nuts; repair tubeless tires; inspect and replace wheel studs, hub seals and bearings.

BRAKE SERVICE

Service, remove and replace brake pads, shoes, front and rear wheels and seals; resurface brake rotors and drums; adjust parking brake.

SUSPENSION MAINTENANCE

Inspect front wheel drive CV boots, front/rear shock absorbers and MacPherson strut assemblies.

EXHAUST SYSTEMS

Remove and replace exhaust system components.

BATTERY, STARTER AND ALTERNATOR SERVICE

Inspect, test, remove and replace batteries, alternators and starters; perform charging system tests; inspect and clean battery cables, connectors, clamps and hold-downs; start a vehicle using jumper cables and a battery or auxiliary power supply.

